

Claims

1. Composition comprising colloidal particles on the surface of which biomolecules are adsorbed, wherein the composition additionally contains a detergent.
2. Composition as claimed in claim 1, wherein the detergent is an ethoxylate detergent.
3. Composition as claimed in claim 1 or 2, wherein the detergent is a polyethoxysorbitan laurate and/or polyethoxysorbitan oleate or/and a lauryl-polyethylene glycol ether.
4. Composition as claimed in one of the claims 1 to 3, wherein the composition contains the detergent in an amount at which the critical micelle concentration is not exceeded.
5. Composition as claimed in one of the previous claims, wherein it contains the detergent at a concentration of 0.0001 to 1 mM.

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6. Composition as claimed in one of the previous claims,
w h e r e i n
the particles are noble metal particles.
 7. Composition as claimed in claim 6,
w h e r e i n
the noble metal is selected from the group
comprising Au, Ag, Cu, Pt, Pd or mixtures thereof.
 8. Composition as claimed in claim 7,
w h e r e i n
the noble metal is Au.
 9. Composition as claimed in one of the previous claims,
w h e r e i n
the mean diameter of the colloidal particles is in
the range of 1 nm to 1000 nm.
 10. Composition as claimed in one of the previous claims,
w h e r e i n
the biomolecules are selected from the group
comprising proteins, glycoproteins, peptides,
nucleic acids, peptidic nucleic acids, saccharides,
antigens and haptens.
 11. Composition as claimed in claim 10,
w h e r e i n
the biomolecules are selected from the group
comprising antibodies, antibody fragments, lectins,

24

zymes, streptavidin, avidin, biotin, recombinant polypeptides, peptides, haptophores.

process for the production of a composition as claimed in one of the claims 1 to 11, wherein a detergent is added to colloidal particles containing biomolecules or/and to a solution containing biomolecules before or/and during the labeling of the colloidal particles with a label.

of a composition as claimed in one of the claims 1 to 11 as a detection reagent.

as claimed in claim 13 as a detection reagent for an immunoassay.

as claimed in claim 13 or 14 in a method for staining cells.

as claimed in claim 13 for staining cells.

12. Process for the production of a composition as claimed in one of the claims 1 to 11,
w h e r e i n
a detergent is added to colloidal particles before loading with biomolecules or/and to a solution containing biomolecules before or/and during loading of the colloidal particles with this solution.
13. Use of a composition as claimed in one of the claims 1 to 11 as a detection reagent.
14. Use as claimed in claim 13 as a detection reagent in an immunoassay.
15. Use as claimed in claim 13 or 14 in a rapid test.
16. Use as claimed in claim 13 for staining tissue sections.
17. Method for the stabilization of conjugates composed of colloidal particles and biomolecules,
w h e r e i n
a detergent is added to colloidal particles before loading or/and to a solution containing biomolecules before or/and during loading of the colloidal particles with this solution.

18. Method as claimed in claim 17,
w h e r e i n
the detergent is added in an amount at which the
critical micelle concentration is not exceeded.
19. Method as claimed in claim 18,
w h e r e i n
the detergent is added in an amount so that the
final concentration is 0.001 to 1 mM.
20. Method as claimed in one of the claims 17 to 19,
w h e r e i n
an additional stabilizer is added after completion
of the conjugation.
21. Method as claimed in claim 20,
w h e r e i n
an inert protein or/and polyethylene glycol is used
as an additional stabilizer.
22. Test kit for an immunological detection method,
w h e r e i n
it contains a stabilized composition as claimed in
one of the claims 1 to 11 as the detection reagent.

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